

MODIS TECHNICAL TEAM MEETING

19 Nov., 1998

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Steve Kempfer, Eric Vermote, Robert Murphy, Ed Masuoka, Wayne Esaias, Al Fleig, Barbara Conboy, Chris Justice, Dan Tarpley (NOAA), Gene Legg (NOAA) and Dave Toll.

1.0 SCHEDULE OF EVENTS

Next MODIS Science Team Meeting, December 15 and 16, 1998. University of MD Conference Center in College Park, MD.

2.1 Overview

Salomonson reported that Tony Janetos (NASA HQ EOS AM Program and Landsat Program Scientist) will be leaving. The replacement has not been determined.

Salomonson said the "Earth Science Community" should do an improved job of building up the excitement for the upcoming EOS AM and Landsat-7 satellite program. Dr. Ghassem Asrar would appreciate more general support for the program, which is a major part of the Earth Science Office Enterprise effort.

Murphy said a recent meeting of the NPP (NPOESS Preparatory Project, a transitional mission from EOS to NPOESS for the 2004/2005 time frame) went very well. NPP is towards developing the AGI-VIIRS (Advanced Global Imager-Visible Infrared Imaging Radiometer Suite). He said the sensor suite will resemble MODIS, AMSU and CERES. Murphy reported DOD, NASA and NOAA participants said the NPP work has been very positive.

2.2 Instrumentation

Guenther reported MODIS FM1 problems from the two independent electrical problems, one on the power supply shutdown, and two, a drift in the PC bands (see Oct. 22 & 29 Minutes) will necessitate that the MODIS FM1 will go back to thermal vacuum for a second round of testing.

2.3 SDST

Masuoka reported he is still working with Greg Scharfen/NSIDC on the data processing scenario using the EASE-Grid in a polar grid map projection (See Oct. 22 & 29 Minutes). Salomonson indicated that the final decision on the mechanisms of the data processing activity between NSIDC and SDST probably will boil down to cost considerations..

Masuoka reported that SDST would meet with Reber (ESDIS Project Scientist) to further understand ESDIS “A-plus package” plans. In addition, SDST will coordinate with the Discipline Group Leaders about ramifications of the A-Plus plans. Fleig said there are several concerns about MODIS having to order (and archive) large amounts of Level 1a data soon after launch (i.e., first ~6 months) to ensure that data at ESDIS will not be permanently lost. In addition, Esaias is concerned about data reprocessing issues.

Masuoka said SDST is conferring with the MODIS Discipline Group Representatives on a strategy about the amount of PI processing. ESDIS is requesting a significant funding reduction in PI Processing by SDST, primarily accomplished by a reduction in the amount of data processing.

Murphy said plans should be developed to have continuity during the period (~Dec. 14, 2001) when there will be a transition between Science Team Members. He said SDST should perhaps coordinate program code activities to ensure data processing continuity.

2.4 Goddard DAAC

Kempler (Attachment 1) summarized GDAAC notes for the last two weeks. He said the DPREP on the attachment refers to an ECS provided set of ephemeris and EOS-am attitude data. Kempler reported GDAAC is working this week on providing feedback on the ESDIS-MODIS Working Agreement. He reported GDAAC will soon change the scope of the Science and Ops Agreements to reflect PI processing and the ECS-SIPS interface. GDAAC is currently reviewing SDST feedback on the Science Agreement. Kempler said they will soon need test data from SDST to further study the triggering of alert flags. Fleig and Masuoka indicated SDST will be able to provide data soon.

2.5 Discipline Reports

Vermote reported that W. Lucht working with Strahler on BRDF/albedo is leaving Boston University to go back to a position in Europe. Tarpley indicated NOAA is talking to Tucker about Fire Products. In addition, Justice and Tarpley agreed to confer about joint MODIS-NOAA cooperation on the EOS fire products.

Esaias reported he recently returned from the U.S.-Japan 9th Meeting on GLI Ocean Color. Esaias said the GLI data processing schedule is slipping and now looks a lot like the ESDIS schedule. Data processing will be 25% at first and then ramp up to 100% after 30 months post-launch. He said the Japanese Y-bomb (sp?) buoy for GLI complemented extremely well the MOBY buoy measurements. In contrast to Buoy, Y-bomb recorded measurements in high chlorophyll areas. Calibration results using Y-bomb and MOBY provided an excellent cluster around the 2-point source locations. However, funding for Y-bomb has run out.

Esaias said that DAO may be having a problem providing to EOS ancillary data products. Esaias will look in to using alternate data directly from NOAA. Kempler reported that the GDAAC has been receiving the NOAA ancillary data for a couple of years and can be obtained directly from GDAAC. Masuoka said a SDST representative will attend an upcoming DAO meeting to further investigate the status of DAO ancillary products for MODIS.

2.6 Work Plans & Science Team Meeting

Murphy reported that all but two of both the Team Member and Group Work Plans are in. He said the exercise has helped him to allocate resources and also has provided the PIs a good framework for planning. Murphy said he will incorporate more specific information in the contracts to ensure satisfactory completion of Validation Work and ATBD updates.

Conboy requested that the discipline leaders provide the discipline presentation material for the upcoming MODIS Science Team Meeting.

3.0 Action Items

3.1 New Action Items

1. Masuoka: Examine status of DAO ancillary products for MODIS
2. Discipline Leaders: Submit to Conboy discipline presentation material for the upcoming MODIS Science Team Meeting.

3.2 Ongoing Action Items

1. Vermote: Set up a meeting about three weeks from now to review the PI Processing Plans.

Status: This item remains open.

2. Gentler: Deliver a schedule for an earlier date on Level 1 code. In addition work on, if possible, a more modularized version of the Level 1B code to minimize any problems from forthcoming software changes.

Status: This item remains open.

3. Murphy: Investigate the status of direct broadcast and present an update to the Technical Team.

Status: This item remains open.

4. Murphy: Coordinate a MODIS approach for radiance-to-brightness temperature conversions.

Status: This action remains open.

5. Masuoka: Submit an EOS-PM Data Product Update to ESDIS.

Status: This action item remains open.

6. Masuoka: Distribute an e-mail message summarizing the status of production rules at ECS.

Status: This material was presented at the last Science Team meeting (June 24 - 26). Masuoka will update this information and pass it along to the discipline group leaders.

7. Murphy: Speak to MCST and the discipline group leaders about what to include in a Version 2.1.1 Level 1B delivery.

Status: This item remains open.